

Prestige Custom Cabinets - Woodworking Operations S04/P04/C04 - Emission Calculations												
Woodworking Operations	Sawdust Collected in trailers (lbs/yr)	Actual Sawdust Generated (lbs/yr)	MTE Sawdust Generated (lbs/yr)	Actual Emissions (lbs/hr)	Actual Annual Emissions (lbs)	Actual Annual Emissions (tons)	MTE Emissions (lbs/hr)	MTE Emissions (lbs/yr)	MTE Emissions (tons/yr)	PTE Annual Emissions (lbs/hr)	PTE Annual Emissions (lbs)	PTE Annual Emissions (tons)
P04 (PM100)	354816	358400	1883750	0.42	832.56	0.416	49.95	437595	218.80	0.50	4375.95	2.19
P04 (PM10)	354816	358400	1883750	0.08	165.22	0.083	9.91	86841	43.42	0.10	868.41	0.43
P04 (PM2.5)	354816	358400	1883750	0.03	61.29	0.031	3.68	32212	16.11	0.04	268.43	0.13

Volume of Collection Trailer (ft3)	2688
Trailers filled per year	11
Est. Density of PM Collected (lbs/ft3)	12
Normal Operating Hours	2000
Baghouse Collection PM Efficiency %	99
Baghouse Collection PM10 Efficiency %	99
Baghouse Collection PM2.5 Efficiency %	99
Maximum Hours of Operation	8760
Est. Percentage of PM 100 um	23.23
Est. Percentage of PM 10 um	4.61
Est. Percentage of PM 2.5 um	1.71

			North Carolina Estimates			Facility Specific		
Process	Facility Max bdft-hr	Facility Max %	PM % Wood Dust	PM10 % Wood Dust	PM2.5 % Wood Dust	PM % Wood Dust	PM10 % Wood Dust	PM2.5 % Wood Dust
Sanding	1450	15.51%	76.00%	23.80%	8.81%	11.79%	3.69%	1.37%
Fine Sawing	310	3.32%	31.00%	0.37%	0.14%	1.03%	0.01%	0.00%
Rough Sawing	4490	48.02%	18.00%	1.89%	0.70%	8.64%	0.91%	0.34%
Milling	100	1.07%	10.00%	0.00%	0.00%	0.11%	0.00%	0.00%
Molding	3000	32.09%	5.20%	0.00%	0.00%	1.67%	0.00%	0.00%
Wood Shaving	0	0	0.56%	0.00%	0.00%	0.00%	0.00%	0.00%
Total						23.23%	4.61%	1.71%

Calculations are based on throughput estimations and density of collected dust from the trailers
Estimated percentage of PM, PM10, and PM2.5 were based on information obtained from the July 15, 1998, "Estimating Emissions From Generation and Combustion of "Waste" Wood"and the July 2007 Woodworking Emission Calculator, published by the North Carolina DNR
Stack testing which occurred on March 6, 2007, showed total PM emissions of 0.3 lbs/hr
MTE was estimated based on the actual sawdust mult by the ratio of actual hours to maximum hours of operation and using a 1.2 safety factor
MTE is the PTE without controls and enforceable restrictions